

**Palestine Red Crescent Society Information System**  
**UNIVERSITAS MUHAMMADIYAH SURAKARTA**



**FINAL PROJECT**

Submitted as a Partial Fulfillment of the Requirements for  
Getting the Bachelor Degree in Department of Informatics  
Faculty of Communications and Informatics

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**APPROVAL**  
**THE FINAL PROJECT ENTITLED**  
**Palestine Red Crescent Society Information System**

Has been reviewed and approved for examination at :

**Day : Senin**

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Palestine Red Crescent Society Information System

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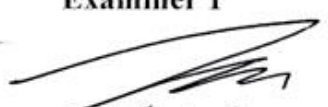
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Surakarta, 02 February 2018  
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## **Palestine Red Crescent Society Information System**

### **ABSTRACT**

Masyarakat Bulan Sabit Merah Palestina (RRC) adalah organisasi layanan terbesar di Palestina, dengan banyak cabang dan pusat. Ini memiliki banyak kegiatan untuk membantu orang-orang Palestina, dan kegiatan ini didanai oleh orang-orang yang senang dari seluruh dunia. Kebutuhan akan penelitian ini adalah mengembangkan sistem informasi untuk mengumpulkan semua informasi dari karyawan dan menghasilkan laporan yang menjelaskan mekanisme kerja dan proses kerja sesuai rencana.

**Keywords:** Information system, PRCS, PHP, MySQL, Palestine.

### **ABSTRACT**

The Palestine Red Crescent Society (PRCS) is the largest service organization in Palestine, with many branches and centers. It has a lot of activities to help the Palestinian people, and these activities are funded by thrilled people from all over the world. The need for this study is to develop an information system through which to gather all the information from the employees and to produce a report explaining the mechanism of work and work process according to plans.

**Keywords:** Information system, PRCS, PHP, MySQL, Palestine.

## **1. INTRODUCTION**

The Palestine Red Crescent Society (PRCS) strives to ease human suffering through its Emergency Medical Services (EMS), preventive and curative health care services, rehabilitation, volunteer activities, and programs promoting social and cultural development, with a focus on the most vulnerable members of the society. PRCS also focuses on the dissemination of the humanitarian values, the fundamental principles of the International Movement of the Red Cross and Red Crescent, in addition to International Humanitarian Law.

PRCS was mandated in 1969 to provide humanitarian, health, cultural and social services when and where needed to the Palestinian population. Following the 1993 Oslo peace accord and the formal establishment of a Ministry of Health (MOH) by the Palestinian Authority (PA), PRCS, in 1996 and 1999, was mandated by the Palestinian Authority to provide National Ambulance and Blood Transfusion and Pre-Hospital Emergency Services in oPt and Health Service in the Diaspora. The PRCS assumed the role of a complementary body to the public authorities, targeting the needs of the most vulnerable and disadvantaged groups within the Palestinian population. The

PRCS has become one of the main non-profit providers of medical and social welfare services in the occupied Palestinian territories. Despite the many obstacles and difficulties, the PRCS persists in providing humanitarian services and support to its people, through its branches in Palestine, as well as in Arab countries where Palestinians reside in large numbers.

The existence of the services provided to the Palestinian people, and to ensure the continuation of work to help, we need to document all activities, and process all data in short times and without errors or data loss. This requires the development of the old information system, which relies on paperwork and archiving in Excel.

The problem of this study in how to set up an information system of the Palestine Red Crescent Society (PRCS) can save data and share it with respective personnel and the establishment of the various reports, With the protection of the information system.

Because of the huge size of the organization and the large number of staff and users, At the beginning of the study will be the establishment the Department of Psychological Health information system in the (PRCS), and then will insert anther Departments in the (PRCS) to this project.

The information is obtained from the department director and some of the staff in the department, and will using the Internet to contact and obtain data and information. In this study we will be talking about how to create a full information system for all the department's activities, from the side store data, and difference reports.

## **2. METHOD**

In this study will use Waterfall Methodology. Waterfall Methodology is one method in System Development Life Cycle, in this methodology will see all step for Method in Palestine Red Crescent Society information system, Figure 1.

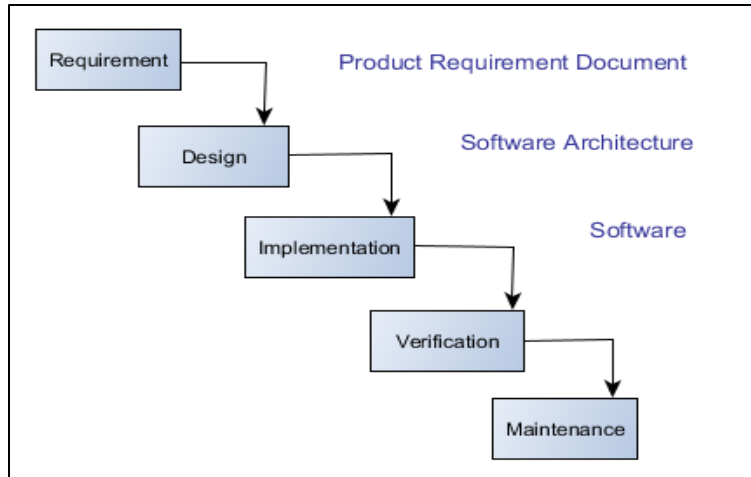


Figure 1. Waterfall methodology

## 2.1 Requirements

Analyze all data first of all user, and allow in the Palestinian Red Crescent Information System to input all actions data how the reaction between project ,result, activity and type of activity with roll type data needs in a web side what want to make.

And with output form this system tow important reports, this reports is data of all activity in one week, Figure 2. and data of all activity in one month. Figure 3.

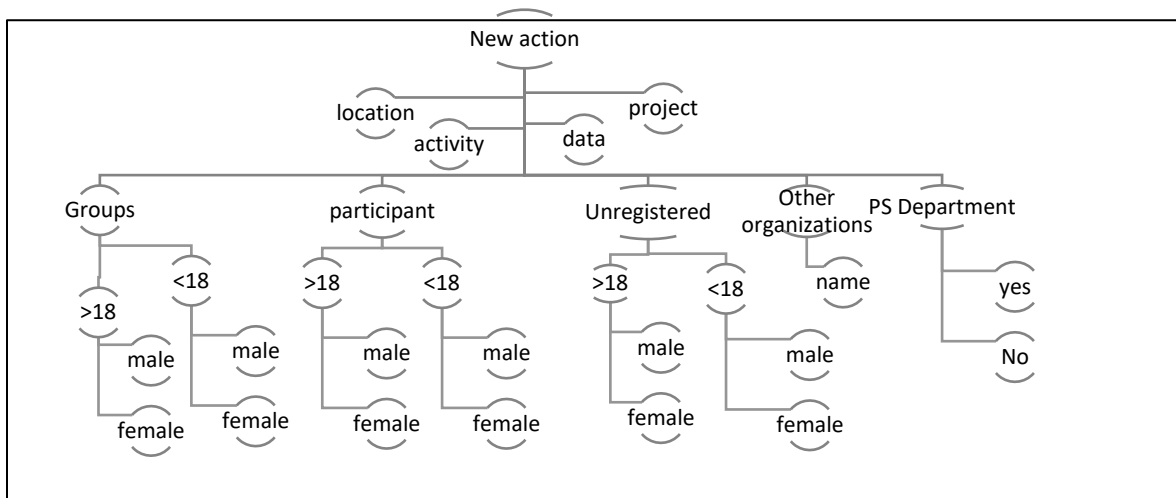


Figure 2 weekly report diagram

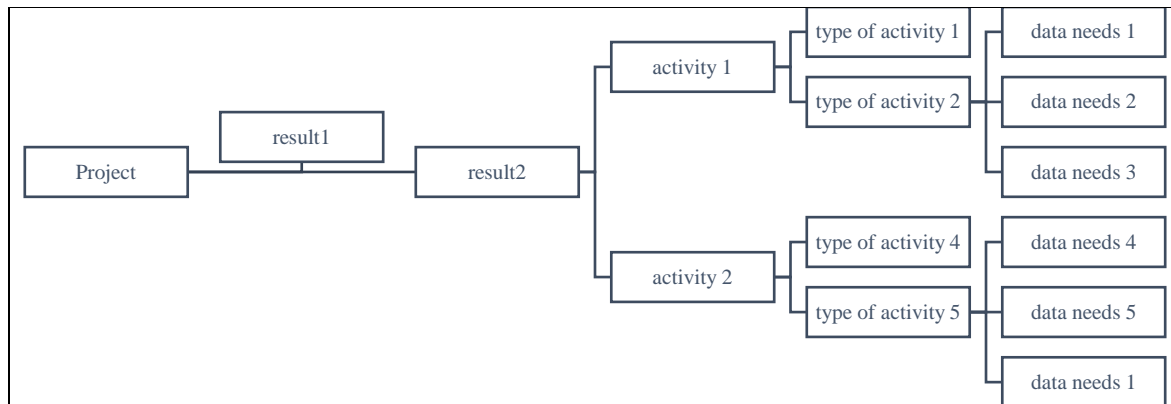


Figure 3 monthly report diagram

## 2.2 Design

in this point will design web said of PRCS to help them in save data and process to get many reports. And will have in this point: Unified Modeling Language UML, database MySQL, interface design, tools of this design.

### 2.2.1 Unified Modeling Language UML

PRCS information system have Requirements. Between tow type of user, IT and anther users. Figure 4 .

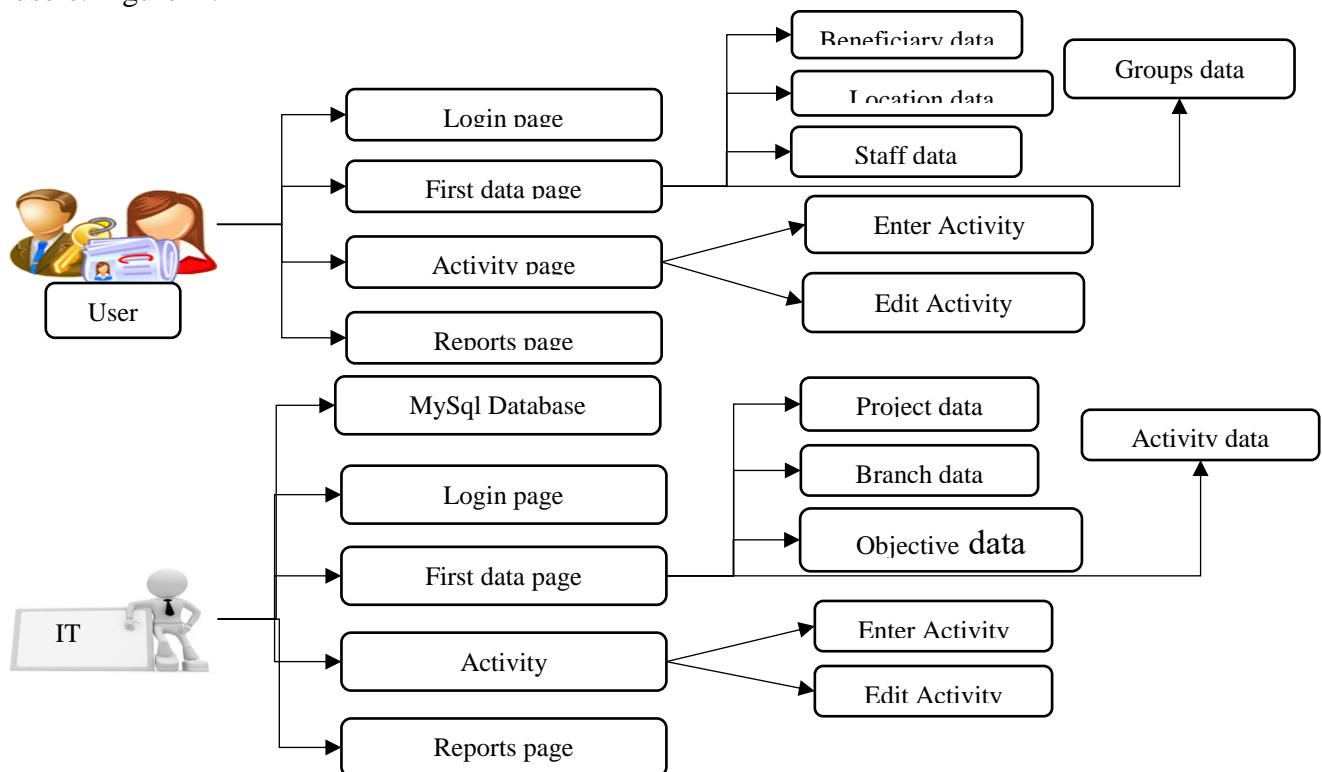


Figure 4 User Case Diagram



## 2.2.2 DATABASE MySQL

Database of The Palestine Red Crescent Society information system can be show in Figure 5.

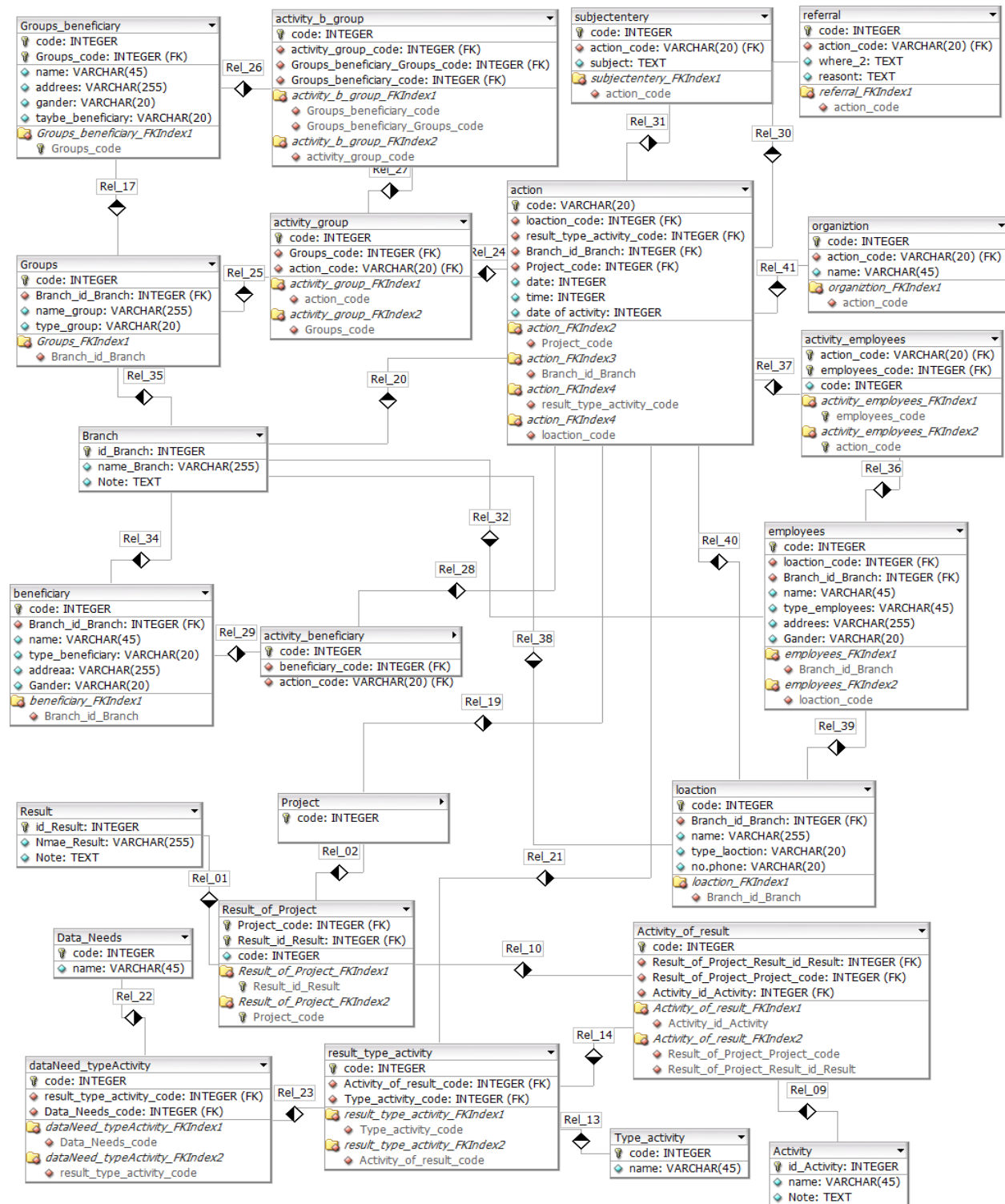


Figure 5 Database design of monitoring system

### 2.2.3 Interface Design

In interface design of PRCS information system should have page of login use ID user and Password to enter this system, in next step will be in home page this page will have all Heaper links of all documents in this system and can change to anther document without refresh page, . And in out application page have 5 port: Figure 6

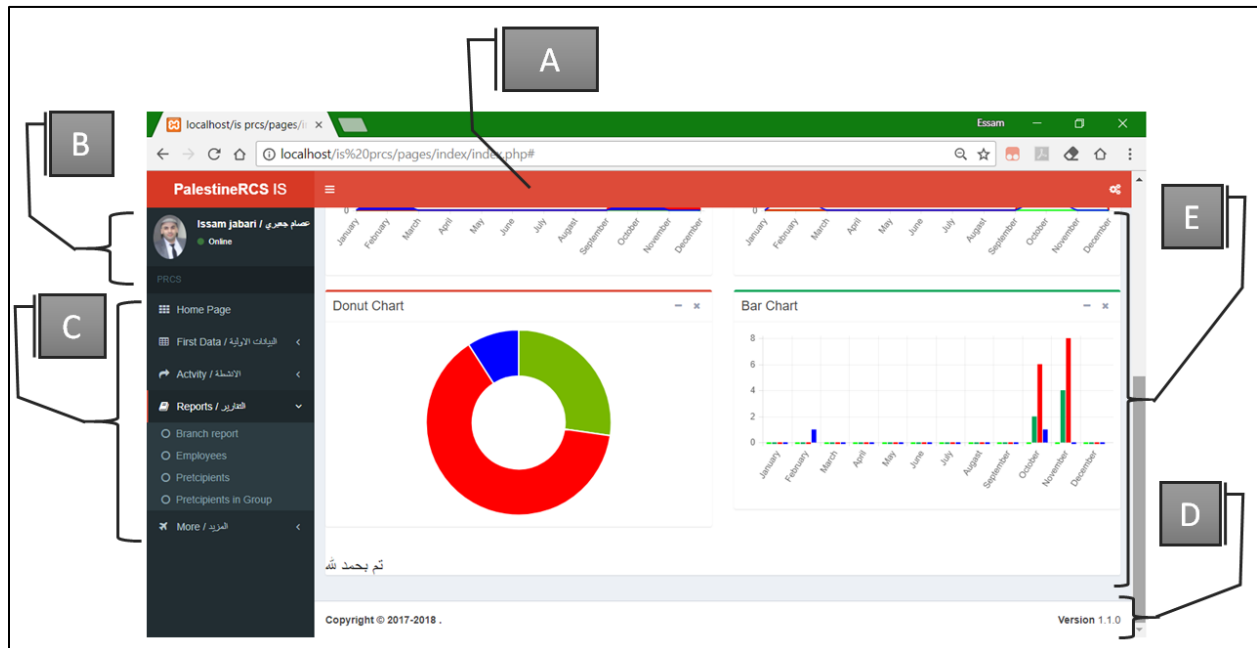


Figure 6 home page screenshot

- A. Main Header: The main header contains the logo and navbar. Construction of the navbar differs slightly from Bootstrap because it has components that Bootstrap doesn't provide.
- B. User information: this place have photo for User and his name.
- C. Sidebar menu: In this menu have all hypertext links between documents, with so simple use
- D. Footer line In this place will write the years of this project and Version number begin form 1.1.0, to show that will be have more than one version in future.
- E. Content: The body of output code without refresh window.

### 2.2.4 Design Main And Supporting tools

In this project, Designer needs main and supporting tools. Each tool is divided into three categories that are hardware, software, and Languages used. Table 1.

.Table 1 Main and Supporting Tools

Hardware	Software	Languages used
Some hardware that are used to design and implement the application. Computer with specification:	Some software that are used to build the application are:	Some software that are used to build the application are:
A. i3	A. Notepad ++	A. PHP
B. Hardsisk 250 GB	B. XAMPP	B. JavaScript
C. RAM 2 GB	C. MySQL	C. jQure
D. Windows operating system	D. AdminLTE-2.3.11	D. Ajax
	E. XAMPP	E. HTML

### 2.3 Implementation

Implementation step of this project is make procedure for control system with user needs. The program pulp of control is how to update data form all staff in PRCS. And The best information data retrieval using php and other language . The programming language used to make such result is PHP , JavaScript, MySQL, jQure, ajax.

And should all staff input them activities to this system flowing Flowchart. Figure 7.

With upload data needs Flow Traceability Matrix . table 2

Table 2 Traceability Matrix table

Demand	UC-1	UC-2	UC-3	UC-4	UC-5
Add new user	X				
User login		X			
Add project Record		X			
Edit project Record		X			
Delete project Record		X			
Add group/ Beneficiary/ location/ activity/ type of activity/ Staff and Volunteers Record			X		
edit group/ Beneficiary/ location/ activity/ type of activity/ Staff and Volunteers record			X		
Delete group/ Beneficiary/ location/ activity/ type of activity/ Staff and VolunteersRecord			X		
create result record			X		
Edit result Record			X		
Delete result Record			X		

add Action of user record	X
edit Action of user record	X
delete Action of user record	X
Reports	X

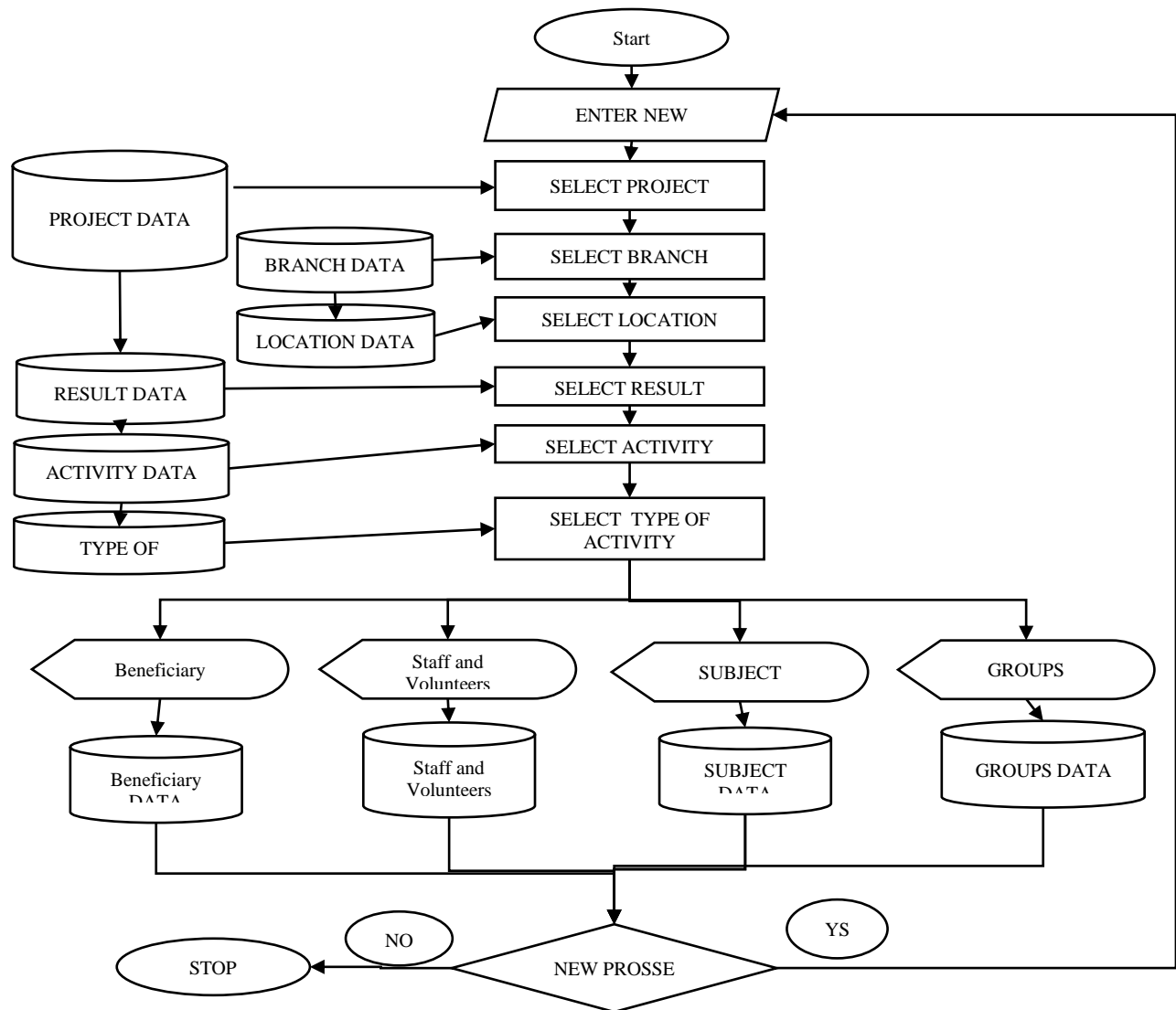


Figure 7 Flowchart of Enter activity

## 2.4 Display Screenshot

Will display the important page in this system.

- a. Login page : in this page will display User ID and Password and should input true user ID and password to enter to PRCS system. Figure 8 .

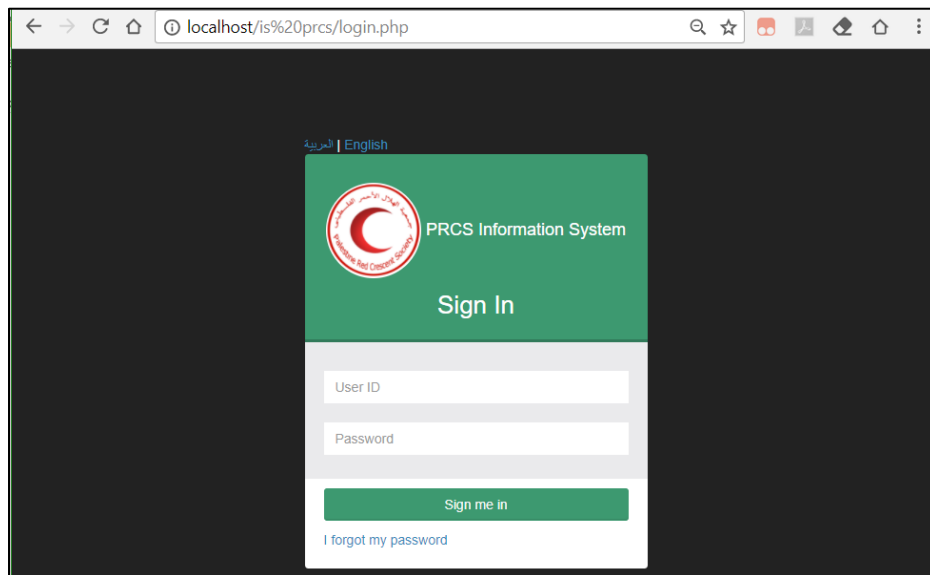


Figure 8 login page

- b. Home page : will display all interface with show 4 different types chart for all projects.

Figure 9 home page

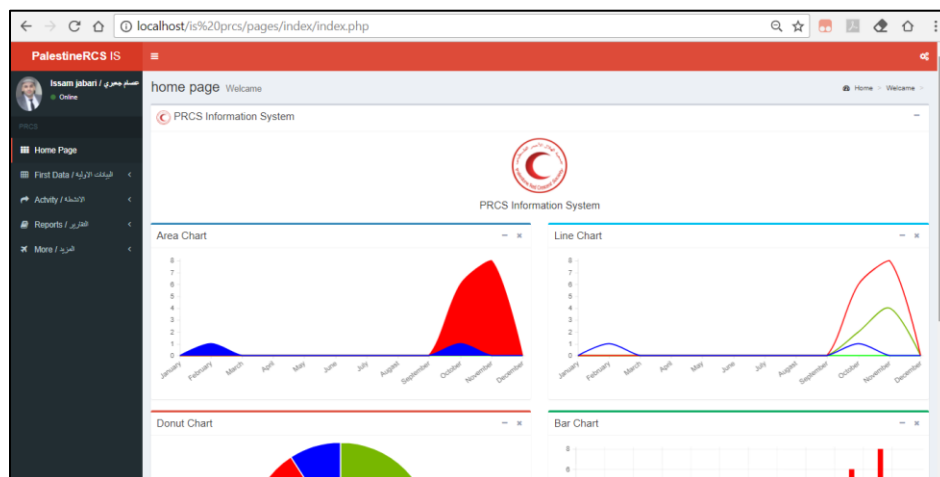


Figure 9 home page

- c. Project : will display all project in database, and can add new project or edit any one , this page allow for IT user. Figure 10.

Project page Welcome PROJECT > Welcome >

Add new

Show 10 entries Search:

Edit/ تعديل	Project Code/ كود المشروع	Project Name/ الاسم	PRCS code/ كود الهلال	Manger/ مدير المشروع	Start date / تاريخ البدء	Note/ ملاحظات	Admin/ المدخل
	1	الدعم النفسي المبني على المدارس الاساسية / SBPSP 09-10	SBPSP	manger1	2017-10-11	text 1	issam
	2	KABAK / كيك	KABAK	manger2	2010-01-09	text2	waleed
	4	ECHO THE CONSORTIUM	ECHO	Danish, French, Icelandic & Italian Red Cross	2013-01-01		issam
	5	hospital help	PRW23	shadi MR	2014-02-03	to text this system	issamuser
Edit/ تعديل	Project Code/ كود المشروع	Project Name/ الاسم	PRCS code/ كود الهلال	Manger/ مدير المشروع	Start date / تاريخ البدء	Note/ ملاحظات	Admin/ المدخل

Figure 10 project page

- d. Groups: will display all Group of User who login to this system with all information, and can add new group or edit it , and can add new people to any group. Figure 11

Groups page Welcome Group > Welcome >

Add new

Show 10 entries Search:

edit Group	edit list	code / كود	Name / الاسم	location / الموقع	TYPE / التصنيف	Admin / المدخل	Female / الف	male / ذكور	Closed Groups/ مجموعات مغلقة
		1	Groups1	الصحة النفسية / Mental Health	اولاء امور	issam	Adults / راشدين 3	Adults / راشدين 10	Closed / مغلق
		10	text 1	يسرى النشة الاساسية للبنين / Yousra Annatsheh Basic Boys	مجتمعي	issam	Adults / راشدين 0	Adults / راشدين 0	

Figure 11 Group page

- e. Result : will display all result for one project with relation between Porject, result, Activity, Type of Activity.In this page have button Add new activity under every result, and after add activity for this result will display this activities in table with button delete , button for add type of activity and button for select data need for any type activity. figure 12

4	106 - Consultations	استشارات	106 - Consultations	nothing	استشارات	issam	Table edit
5	107 - Referrals	التحولات	107 - Referrals	nothing	التحولات	issam	Table edit
Action	code	activity	edit type	Type of activity		Admin	Table of Activity

ACTIVITIES RELATED TO EXPECTED RESULT 2 / 2 الأنشطة المتعلقة بالنتيجة 2 / 2

Add new activity							
Action	code	activity	edit type	Type of activity		Admin	Table of Activity
6	201	School-Based Guided Workshops (PRCS) الورش الموجهة في المدارس الأساسية (PRCS)	201 - School-Based Guided Workshops (PRCS)	nothing	الورش الموجهة في المدارس الأساسية (PRCS)	issam	Table edit
7	202	School-Based Guided Workshops (MOE/MOE) الورش الموجهة في المدارس الأساسية (MOE/MOE)	202 - School-Based Guided Workshops (MOE/MOE)	nothing	الورش الموجهة في المدارس الأساسية (MOE/MOE)	issam	Table edit
8	203	Center-Based Guided Workshops الورش الموجهة في المراكز	203 - Center-Based Guided Workshops	nothing	الورش الموجهة في المراكز	issam	Table edit
Action	code	activity	edit type	Type of activity		Admin	Table of Activity

ACTIVITIES RELATED TO EXPECTED RESULT 3 / 3 الأنشطة المتعلقة بالنتيجة 3 / 3

Add new activity							
Action	code	activity	edit type	Type of activity		Admin	Table of Activity
14	23	Headmaster/Mistress Meetings لقاءات مع رؤساء/مدرسات	23 - Headmaster/Mistress Meetings	nothing	لقاءات مع رؤساء/مدرسات	issam	Table edit
13	24	Community Committee Meetings لقاءات لجان مجتمع	24 - Community Committee Meetings	nothing	لقاءات لجان مجتمع	issam	Table edit
15	25	Psychosocial Awareness Meetings لقاءات التوعية النفسية	25 - Psychosocial Awareness Meetings	nothing	لقاءات التوعية النفسية	issam	Table edit
16	26	Psychosocial Center Daily Activities (Covers) زينة	26 - Psychosocial Center Daily Activities (Covers)	nothing	زينة	issam	Table edit
17	27	Theatre Shows عروض المسرح	27 - Theatre Shows	nothing	عروض المسرح	issam	Table edit

Figure 12 result page

- f. New Activity: New activity here is the data of any action for user have relation with project result, and this data needs to save in this system. Figure 13

Enter activity advanced

Entry number / رقم الإدخال: 9611M / Date: 2017-10-17

Project / المشروع: ECHO THE CONSORTIUM

Branch / الفرع: Hebron / الخليل

Location / الموقع: Tyuseer/Maraga Basic Girls / تيرسر/مراغا الأساسية للبنات

EXPECTED RESULT / النتيجة: ACTIVITIES RELATED TO EXPECTED RESULT 1 / 1

Activity / النشاط: Group Counseling / جلسة معاني

type of Activity / نوع النشاط: Group Counseling / جلسة معاني

Date of Activity / تاريخ النشاط: 10/10/2017

Number of hours/ساعات: 2

Monitored / مراقب: ☒ Yes / نعم

Groups / المجموعات: Employees / الموظفين

Subject / الموضوع:

Add new group

Show: 10 entries

Action	code / رقم	Name / الاسم	location / الموقع	TYPE / التصنيف	Admin / المدير	work / العمل	Show / عرض	female / أنثى	male / ذكر	Closed Groups / مجموعات مغلقة
1	1	Groups1	الأسرة النفسية / Mental Health	نوع آخر	issam	work	<input checked="" type="checkbox"/>	Adults / البالغين 2 Children / أطفال 0	Adults / البالغين 1 Children / أطفال 2	Closed / مغلقة

Figure 13 New activity page

- 1- Code of this New activity and date of input this date: code auto form system, and cant use same this code from anther user, and have date for know when this user input has action.
  - 2- Select Project: in this system should select Project, and after select any project will display all his result in select result (5).
  - 3- Select Branch: it display all branch in this system, after select branch will change data select in select location .
  - 4- Select Location: display all location in branch.
  - 5- Select Result: select for any result have relation with project (2), and when select any Result will display all activity has relation with this result in select activity (6).
  - 6- Select Activity: when select any activity will display all type of activity in select type of activity (7).
  - 7- Select Type of Activity : after select type of activity will display Data needs form this Type of activity in (11), like what have relation between type of activity and data needs of activity.
  - 8- Select date of this action: the date when this action did.
  - 9- Input Number of hour: the time from begin this action to end, by user number 1.2.3.4 ..
  - 10- chik box Monitored: for know of this action Monitored from anther staff.
- g. Report page: there have 4 reports type, will display PRCS Work, with so simple Search and can print this report. Figure 14

select Research

Project / المشروع: ECHO THE CONSORTIUM

Branch / الفرع: Hebron / الخليل

From Date / من تاريخ: 10/01/2017

To Date / الى تاريخ: 10/31/2017

Reported by / اسم نائب التقرير: issam

Research / بحث

Project Code : 4

Project Name : ECHO THE CONSORTIUM

الأنشطة المتوقعة بالمرجع 1 / 1

code (9-102)

Activity (Individual Counseling) (نرشدة فردي: Individual Counseling)

type of Activity / نوع النشاط (نرشدة فردي: Individual Counseling)

عدد المتكلمين الجدد	عدد المتكلمين	عدد الورش	عدد التفاعلات المتوقعة
18 اكبر من 18 male = 1 Female = 0	1	4	0
18 اصغر من 18 male = 0 Female = 0			

Comments: information on subjects being discussed in the meetings or any other details that may be relevant.

Figure 14 Branch report page



h. Information page: will display name and information about this project .Figure 15



.Figure 15 information page

### 3. RESULT AND DISCUSSION

#### 3.1 Black Box Testing

Black box testing is a testing method that focuses on the functional specification of the software, the tester can define a set of inputs and perform tests on the functional specification program. Table 3.

Table 3 Black Box testing

code	Screenplay	Issue	Test	Score
1	Login page	Input user ID and password	If ID and password true the user will be redirected to home page else will back to login page	✓
2	Home page	Display charts for all project	System will show 4 chart type for all project in one years, after have connect with database	✓
First data				

3	Project	click link project will show project page	If user is IT , System will show all project in one table and have to add new project , or edit project .. (without refresh page)	✓
4	Branch	click link Branch will show branch page	If user is IT , System will show all branch in one table and have to add new branch , or edit branch .. (without refresh page)	✓
5	User	click link Branch will show user page	If user is IT , System will show all user in one table and have to add new User , or edit user .. (without refresh page)	✓
6	Result	click link result will show result page	If user is IT , System will show all result by project in one table and have to add new activity to any result , or edit activity, delete activity and add type activity .. (without refresh page)	✓
7	Employees	click link Employees will show Employees page	If user is IT , System will show all Employees in one table and have to add new Employees, or edit Employees.. (without refresh page)	✓
8	Location	click link Location will show Location page	System will show all Location in one table with reaction between Location and branch , and have to add new Location, or edit Location.. (without refresh page)	✓
9	Activity	click link Activity will show Activity page	System will show all Activity in one table, and have to add new Activity, or edit Activity.. (without refresh page)	✓
10	Type of activity	click link Type of activity will show Type of activity page	System will show all Type of activity in one table, and have to add new type, or edit type.. (without refresh page)	✓
11	Groups	click link Groups will show Groups page	System will show all Groups in one table with reaction between Groups and user , and have to add new Groups, or edit Groups, with add people in this groups and show total of all people under type(>18 <18) and gander(Male/ Female).. (without refresh page)	✓
12	Beneficiary	click link Beneficiary will show Beneficiary page	System will show all Beneficiary in one table with reaction between Beneficiary and Branch , and have to add new Beneficiary, or edit Beneficiary.. (without refresh page)	✓
Activity				
13	New Activity	click link New Activity will show New Activity page	System will display new activity page and can select all data need form what all user save in this system , after click save will show all input data needs for this action under reaction from result page (without refresh page)	✓

14	Edit Activity	click link Edit Activity will show Edit Activity page	System will display table all activity have user input before and can edit this activity (without refresh page)	✓
Reports				
15	Branch Report	click link Branch Report will show Branch Report page	System will display project select , branch select, date from , to date , and Search button, after selected all data need and click search will give report have all result of project select with table of all activity and type of activity give with output data under relation between type activity and type data need (without refresh page)	✓
16	Employees	click link Employees Report will show Employees Report page	System will display project select , Employees select, date from , to date , and Search button, after selected all data need and click search will give table have all activity was this Employees insert to her (without refresh page)	✓
17	Beneficiary in Group	click link Beneficiary in Group Report will show Beneficiary in Group Report page	System will display project select , total came more, date from , to date , and Search button, after selected all data need and click search will give table have all Beneficiary in any group was this Beneficiary insert to activity more than “total came more” (without refresh page)	✓
18	Beneficiary	click link Beneficiary Report will show Beneficiary Report page	System will display project select , Beneficiary select, date from , to date , and Search button, after selected all data need and click search will give table have all activity was this Employees insert to her (without refresh page)	✓
More				
19	Login out	click link Login out will back to login page	System will delete all COOCLIES of user and sing out to login page again	✓
20	Information	click link Information will show Information page	System will display information about this project and way to call writer (without refresh page)	✓

The Palestine Red Crescent Society information system on server PRCE link:

<http://93.184.5.50/system/prc/login.html>

#### **4. CONCLUSION**

the designer concludes that, This project can give the information about the staff of Participants in the table form by using Project data and Activity data.

Project data and result data that is processed by this project are activity name, and type of activity.

The designer hopes that in the future, the project can be developed. And the suggests to the anther students in UMS and to PRCS department to: The next step of the designer, can develop the project to be caver all department in PRCS. another organization can use the application to be a information system for them with small change in interface.

#### **REFERENCES**

Clarke, A. Fehnker, Z. Han, B.H. Krogh, J. Ouaknine, O. Stursberg, and M. Theobald. Abstraction and counterexample-guided refinement in model checking of hybrid systems. Int. JournalFoundations of Computer Science, 14(4):583–604, 2003. Available from World Wide Web:

S. Tripakis. Undecidable problems of decentralized observation and control. Information Processing Letters, 90(1):21–28, 2004.

Selectors API Level 1, W3C Recommendation (21 February 2013). This standard turned what was jQuery "helper methods" into JavaScript-native ones, and the wide use of jQuery stimulated the fast adoption of querySelector/querySelectorAll into main Web browsers.

Joe Sacco, Edward W. Said,(1992-1995), PALESTINE, journalism-PALESTINE.

PRCS. (2000 – 2016), Balsam Magazine ,RAMALAH – PALESTINE.

"jQuery: The write less, do more, JavaScript library". The jQuery Project. Retrieved 29 April 2010.

AdminLTE-2.3.11.

WWW.Palestinercs.org

<http://libscore.com/#libs>